

Control Panels

B5512/B4512/B3512 v2.03.018



BOSCH

en Release Notes

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1 Introduction

These *Release Notes* are for control panel **firmware v2.03.018**.

1.1 Requirements

Firmware v2.03.xxx requires Remote Programming Software (RPS) version 5.19 or higher to program all the new features of the control panel.

1.2 About documentation

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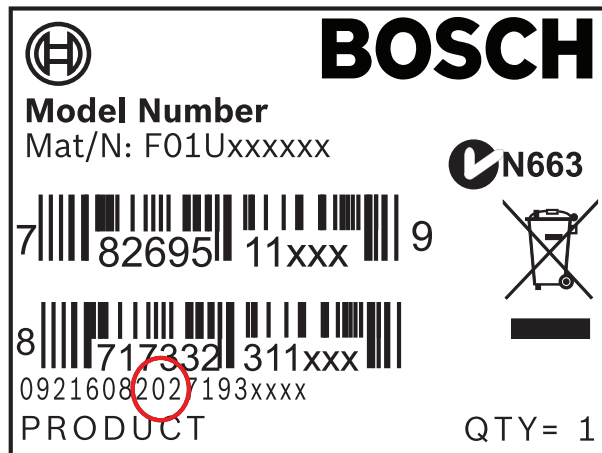
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1.2.1

Related documentation

*Control Panels (B5512/B4512/B3512) Release Notes (P/N: F01U299696)**

*Control Panels (B5512/B4512/B3512) Installation and System Reference Guide (this document) (P/N: F01U287180)**

Control Panels (B5512/B4512/B3512) Owner's Manual (P/N: F01U287181) **

*Control Panels (B5512/B4512/B3512) Program Entry Guide (P/N: F01U287183)**

Control Panels (B5512/B4512/B3512) UL Installation Guide (P/N: F01U287185) **

Control Panels (B5512/B4512/B3512) SIA Quick Reference Guide (P/N: F01U287184) **

*Shipped with the control panel. *Located on the documentation CD shipped with the control panel.

2 Version 2.03.018 firmware

What's new?

- *Full support for integrated (connected) Bosch IP cameras, page 6*

Corrections

- *Incorrect report delivery confirmation, page 6*
- *B942/B942W keypad inactivity, page 6*
- *Off-normal Test Reports sent for faulted controlled points, page 7*
- *B450 cellular call back, page 7*

Known issues

- *Wireless, page 7*
- *Personal notification, page 7*
- *Bypassing and Service Bypass, page 7*
- *Panic alarm history events, page 7*
- *RPS log thresholds, page 7*
- *Firmware updates, page 7*
- *Manual fire alarms, page 8*

See also

- *Incorrect report delivery confirmation, page 6*
- *B942/B942W keypad inactivity, page 6*
- *Off-normal Test Reports sent for faulted controlled points, page 7*
- *B450 cellular call back, page 7*

2.1 What's new?

This section examines the new features of this firmware version.

2.1.1 Full support for integrated (connected) Bosch IP cameras

This firmware version offers full support for connected Bosch IP cameras, including the ability to view IP camera video from within the Remote Security Control (RSC) app v2.3.x or higher.

2.2 Corrections

This section examines the corrections made in this firmware version.

2.2.1 Incorrect report delivery confirmation

The following is resolved in this firmware version: In rare cases when attempting to send a network report to the central station, the control panel might misinterpret a receiver supervision poll response as a report transmission response. Although all local devices (e.g. keypad displays, sounders, and bells) provide proper event indications, the central station receiver might not receive the report. This scenario erroneously indicates that the central station receiver properly received the report. This only affects customers using Ethernet or cellular as a primary or backup device with the Receiver Supervision Time set to a value other than “No Polling”.

2.2.2 B942/B942W keypad inactivity

The following is resolved in this firmware version: A B942/B942W Touch screen Keypad might show flashing text or might reset. As part of the reset process, the keypad stops responding to the control panel for approximately 15 seconds, and then resumes normal operation. The control panel creates a missing keypad event, and if points are assigned to that keypad, the control panel creates missing point events, followed by their restorals.

2.2.3 Off-normal Test Reports sent for faulted controlled points

The following is resolved in this firmware version: At the time of a manually or scheduled Test Report, the control panel sends an Off-Normal Test Report if any controlled point is faulted.

2.2.4 B450 cellular call back

The following is resolved in this firmware version: A connected B450 Conettix Plug-in Communicator Interface cannot receive an SMS text message from the RPS to request cellular call back from the control panel.

2.3 Known issues

This section examines the known issues of this firmware version.

2.3.1 Wireless

- Replacing a wireless point device that has a low battery condition with a different device does not restore the point; replace the batteries of the device with the low battery condition to generate a restoral event.
- Using a keypad to change the RF ID of an RFUN transmitter, when the RFUN has only one Input Function enabled, generates a false trouble.
- When an RFUN universal transmitter is tampered, the keypad indicates that the point is Open. To determine whether the point is open or tampered without examining the device, enter the keypad's Installer menu, and then view the Diagnostics for RF Points within the Wireless menu.

2.3.2 Personal notification

Personal notification events shown in the RPS History log might not show communication status within the proper destination location.

2.3.3 Bypassing and Service Bypass

- The keypad option View Service Bypass shows the points for all areas, regardless of the keypad's scope or the user's authority in the area(s).
- Changing a faulted point's Point Index to Bypassable does not allow bypassing the point. Manually clear the fault.
- Running a SKED with the function to Unbypass All Points unbypasses any faulted non-controlled (24 hr) points, causing alarm reports.
- For non-controlled (24 hr) points, setting Bypass Returnable to Yes unbypasses the points on disarm, causing alarm reports. Do not set non-controlled points with Bypass Returnable to Yes.

2.3.4 Panic alarm history events

History events for Panic Alarms at a keypad do not list the keypad number at which the alarm occurred.

2.3.5 RPS log thresholds

Reconfiguring the RPS Log Threshold to a number lower than the current log percent on the control panel, prevents the control panel from calling RPS. Receive history in RPS upon connecting, prior to lowering the log threshold.

2.3.6 Firmware updates

The control panel reconnects to RPS after a control panel firmware update. If using a USB connection, do the following if RPS shows the Port in use message and the control panel does not reconnect within 5 min:

1. Disconnect the USB cable from the control panel.
2. Reconnect the cable to the control panel.
3. Attempt to connect to the control panel through RPS.

2.3.7

Manual fire alarms

Manual fire alarms might appear in status reports.

2.3.8

Reporting Delay for Single Tower

This parameter allows the control panel to indicate if there is only one tower available for communication if the event has been present for the duration specified. Leave this parameter at the default setting (0 Disabled) unless otherwise instructed by a Bosch Security Systems, Inc. representative.

3 Firmware revision history

This section examines the notable features of previous revisions of this firmware.

3.1 Version 2.03.002 firmware revision history

Notable features

- *Passcode Enter function, page 9*
- *B942/B942W Touch Screen Keypad support, page 9*
- *B942/B942W keypad output support, page 9*
- *Keypad proximity reader support, page 9*
- *B915 Basic keypad support, page 10*
- *B450 module support, page 10*
- *Bus module diagnostics, page 10*
- *Personal notifications, page 10*
- *IP camera enhancements, page 10*
- *E control panels, page 10*
- *RF module type discovery, page 11*
- *Area Re-Arm, page 11*

3.1.1 Passcode Enter function

For SDI2 keypads, the control panel provides additional passcode enter functions on supported v2.03 systems to increase user convenience. These are especially useful when used with the new B942/B942W Touch Screen keypad.

These passcode enter functions are Login Only and Login/Disarm.

Login Only

When a user logs in, the control panel toggles to the configured user language, and silences any bells.

Login/Disarm

When using this feature, the control panel toggles to the configured user language, deactivates any active bells, and disarms any armed areas within the scope of the keypad in reference to the authority level of the designated user.

3.1.2 B942/B942W Touch Screen Keypad support

The B942/B942W is an SDI2 bus compatible device. Each keypad has a credential reader, a presence sensor, a graphical interface for controlling the system, touch screen keys for data or command entry, a backlit display that shows system messages for all areas, and a user-adjustable sounder that emits warning tones. The keypad supports four inputs and one output.

3.1.3 B942/B942W keypad output support

The control panel supports the B942/B942W output connection, which provides for cost effective expansion.

3.1.4 Keypad proximity reader support

The control panel supports the proximity reader on compatible keypads, such as the B942/B942W. The reader allows for an optional credential (card or token) to turn on or off the security system without pressing any keys. The user simply swipes a card or token in front of the keypad's integrated reader.

3.1.5 **B915 Basic keypad support**

The B915 Basic Keypad is an SDI2 bus compatible device. It offers the same commands and menu structure as the other B Series intrusion keypads.

3.1.6 **B450 module support**

The B450 is a four-wired SDI2 bus device that supports two-way IP communication over commercial cellular networks using a plug-in communicator. The module allows remote location installation of plug-in cellular communicators, and allows a plug-in cellular communicator installation through the SDI2 when a B430 Plug-in Telephone Communicator is connected to the control panel.

Supported cellular plug-in modules include:

- B440 Conettix Plug-in Communicator, Cellular (3G)
- B441 Conettix Plug-in CDMA Cellular Communicator
- B442 Conettix Plug-in GPRS Cellular Communicator (intended for Europe, Latin America, Middle East, Australia, and China)
- B443 Conettix Plug-in HSPA+ Cellular Communicator (intended for Canada, Europe, and Middle East)

3.1.7 **Bus module diagnostics**

The control panel supports bus module diagnostics for cellular devices connected through the B450. Diagnostic information shows within the module diagnostics, and can show on the keypad and in RPS.

3.1.8 **Personal notifications**

The control panel supports SMS and email messages through the B426 Conettix Ethernet Communication Module and B450 Conettix Plug-in Communicator Interface.

3.1.9 **IP camera enhancements**

- The control panel supports IP camera diagnostics. View diagnostic information on the keypad and in RPS.
- When using an IP camera-to-control panel configuration, camera MOTION+ and VCA alarm conditions result in a shorted point condition. IP Camera Tamper conditions result in an Open point condition.

(The B426, B3512, and the E variants do not support IP cameras.)

3.1.10 **E control panels**

Beginning with firmware v2.03, B Series control panels now include “E” (Economy) variants. These variants are the B5512E, B4512E, and B3512E control panels. The “E” control panels operate identically as the B5512, B4512, and B3512, respectively, except they do not include an on-board Ethernet port.



Notice!

The system can include Ethernet by adding a B426 Conettix Ethernet Communication Module, if desired.



Notice!

Only on-board Ethernet supports IP cameras. The B426, B3512, and the E variants do not support IP cameras.

3.1.11 RF module type discovery

The control panel now automatically discovers the RF receiver type (RADION or Inovonics). After connecting a RF receiver, receive the account from the control panel to RPS to save the discovered RF type to the control panel account.

3.1.12 Area Re-Arm

The Area Re-Arm feature has been enhanced to span its timer functionality across multiple days (that is, for midnight crossing). The enhancement includes the Area Re-Arm, Auto Close, and Extend Close features and their associated timers.

3.2 Version 2.02 firmware revision history

Notable features

- *Monitor Delay, page 11*
- *Delay Response, page 11*
- *Area Re-Arm, page 12*
- *Enhanced keyfob operation, page 12*
- *Legacy commands, page 12*
- *IP camera support, page 13*
- *B442 and B443 module support, page 13*

3.2.1 Monitor Delay

Use this parameter to configure the length of time (MM:SS) a control panel waits after a disarmed point has been faulted before logging and/or reporting the event to the central station receiver. The control panel logs and reports a Burg Supervisory report to the central station receiver if the point remains faulted during the entire period of time configured in this parameter. If the point is restored during this time, the control panel does not send a report. There is no audible or visual annunciation of the report sent to the central station receiver. To enable the reporting portion of this feature, additionally set the Disarmed Point Response to “Blank”.

Example of use for this feature would be to notify the central station if a freezer or overhead door has been left open for an extended amount of time.

3.2.2 Delay Response

For special applications, this configurable timer requires an extended fault duration before an off-normal condition is recognized. This feature is useful to allow a site to create an alarm or local warning when a point remains faulted too long (or requires a longer point response time), such as an employee door, or overhead door. There is a separate delay configuration for armed and disarmed states. Most point responses are delayed, including alarm detection, watch tone, output followers, buzz on fault.

24-Hour points always use the **Delay Response, Armed** feature even if the area is disarmed.

Delay response – disarmed

This feature sets the length of time (MM:SS) the control panel waits after a point faults before annunciating or reporting the fault. You can set this parameter from 5 seconds to one hr. This parameter only applies to the following point types when disarmed:

- Part On
- Interior
- Interior Follower

Default: 00:00

Selections: 00:05 thru 60:00

00:00 = Disabled

Delay response – armed

This parameter sets the length of time (MM:SS) the control panel waits after an armed point faults before annunciating or reporting the fault. This parameter only applies to the following point types when armed:

- 24-Hour
- Part On
- Interior
- Interior Follower

Default: 00:00

Selections: 00:05 thru 60:00

00:00 = Disabled

3.2.3**Area Re-Arm**

Area Re-Arm allows high security areas such as vaults and ATM machines to automatically rearm after a configured amount of time (HH:MM). This prevents scenarios where the user disarms, finishes his task, but forgets to rearm. There is an optional “Close now” warning 10 min before it arms, and the area annunciates exit delay warning if exit delay is configured. When enabled, the control panel automatically starts a timer to rearm an area when that area has been disarmed.

The default timer is disabled with a value set of 00:00, but has a range of 23:59 (23 hr and 59 min) when enabled.

**Notice!**

The designated area rearms automatically at midnight regardless of how much time has elapsed.

Area rearms to All On regardless of the previous arm state.

3.2.4**Enhanced keyfob operation**

The control panel includes an option to have greater flexibility regarding user authority related to the arming and disarming programming of the keyfob. The new parameters are;

- Keyfob Arm
- Keyfob Disarm

Keyfob authority allows you to configure a keyfob for either arming, disarming, or both. You can configure one user’s keyfob to arm the system only, while another user’s keyfob to disarm the system.

3.2.5**Legacy commands**

The control panel now supports the following commands.

Command	Function
[CMD] 0	Bypass
[CMD] 0 0	Unbypass
[CMD] 1	All on (with delay)
[CMD] 1 1	All On, Instant
[CMD] 2	Part On, Instant
[CMD] 3	Part On (with delay)
[CMD] 4 0	See Alarms

Command	Function
[CMD] 4 7	Reset Sensors
[CMD] 5 0	Go to Area
[CMD] 5 1	Extend Close
[CMD] 5 3	Delete User
[CMD] 5 5	Change Passcode
[CMD] 5 6	Add User
[CMD] 5 9	Show Revision
[CMD] 6	Watch Mode
[CMD] 8	Open Main menu

The firmware version for which the legacy commands became available:

Firmware version	Legacy command
v2.03	[CMD] 8
v2.02	[CMD] 5 0, [CMD] 5 3, [CMD] 5 5, [CMD] 5 6, [CMD] 5 9
v2.00	[CMD] 0, [CMD] 0 0, [CMD] 1, [CMD] 1 1, [CMD] 2, [CMD] 3, [CMD] 4 0, [CMD] 4 7, [CMD] 6

3.2.6

IP camera support

Support for the IP camera configuration:

- IP camera as an input source.
- IP camera as an output source.

(The B426, B3512, and the E variants do not support IP cameras.)

3.2.7

B442 and B443 module support

The control panel supports the new B442 Plug-in GPRS Cellular Communicator and B443 Plug-in HSPA+ Cellular Communicator. The B442 provides IP communication over a GSM (GPRS) cellular network. The B443 enables IP communication over a GSM/GPRS/EDGE/UMTS/HSPA cellular network.

The B442 is for use in Latin America, Europe, Middle East, Australia, and China. The B443 is for use in Canada, Europe, and Middle East regions.

3.3

Version 2.01 firmware revision history

Notable features

- *B3512 control panel, page 14*
- *Enhanced dual language support, page 14*
- *Remote module firmware updates, page 14*
- *Monthly test reports, page 14*
- *Email notifications, page 14*
- *B441 and B450 module support, page 14*
- *Inovonics Transmitter custom functions, page 15*

3.3.1 B3512 control panel

The new B3512 control panel supports up to 10 users, 1 custom function, up to 16 points, up to 3 outputs, and up to 4 supervised keypads, and 1 area.

3.3.2 Enhanced dual language support

Enhanced dual language support allows you to choose any two of the following languages:

- English
- Spanish (Latin American)
- Portuguese (Latin American)
- French (Canadian)

Use RPS to choose the two languages for the control panel.

3.3.3 Remote module firmware updates

The control panel includes the support of remote module firmware updating using the RPS Firmware Update Wizard – without visiting each individual module – via:

- Local – Ethernet or USB
- Remote – Ethernet or Cellular

The control panel includes a programmable option for local keypad authorization. When the local authorization option is enabled via RPS, only a user with the Firmware Update Authority enabled can authorize the update.

Preconditions

The control panel must be running normally: AC power present; the battery at full charge; and all areas disarmed. These three conditions must be met for firmware updates to initiate.



Notice!

When the firmware updates complete and the control panel comes back on-line, the control panel generates a local restoral event for each module successfully updated. The events are local only.

You cannot update the firmware on a B426 or B450 module using the Firmware Update Wizard.

3.3.4 Monthly test reports

The control panel includes an option to enable monthly test reports. Monthly test reports run every 28 days without the need to program a SKED.

3.3.5 Email notifications

The control panel now supports personal notifications using email. The control panel can send text messages and emails for personal notification when using the on-board Ethernet or a cellular communicator*. You can configure up to 16 destinations using a combination of cellular phone numbers and email addresses.

*Text messaging is only supported with cellular communicators plugged directly into a B Series control panel prior to v2.03.

3.3.6 B441 and B450 module support

- The control panel supports the new B441 Conettix Plug-in CDMA Cellular Communicator and B450 Conettix Plug-in Communicator Interface*.
- The B441 enables secure two-way IP communication over the Verizon cellular network and requires active cellular service to communicate.

- The B450 is a four-wired SDI2 bus device that provides two-way IP communication over commercial cellular networks using a plug-in communicator. With the B450, the control panel can use two plug-in modules (for example, a cellular module plugged into the B450 and a PSTN module plugged into the on-board connector).

*Not investigated by UL.

3.3.7 Inovonics Transmitter custom functions

Custom functions now apply to Inovonics 4-button transmitters. Program up to two custom functions that a user can activate using the * keys. (B3512 supports only one custom function.)

3.4 Version 2.00 firmware revision history

Notable features

- *Remote control panel firmware updates, page 15*
- *SDI2, page 15*
- *Keypad programming, page 15*
- *Event log, page 17*
- *Conettix receivers, page 17*

3.4.1 Remote control panel firmware updates

The control panel includes the support of remote firmware updating using the RPS Firmware Update Wizard via:

- Local – Ethernet or USB
- Remote – Ethernet or Cellular

The control panel includes a programmable option for local keypad authorization. When the local authorization option is enabled via RPS, only a user with the Firmware Update Authority enabled can authorize the update.

Preconditions

The control panel must be running normally: AC power present; the battery at full charge; and all areas disarmed. These three conditions must be met for firmware updates to initiate.

3.4.2 SDI2

SDI2 module supervision

- When an SDI2 device fails supervision, a system fault is annunciated at the keypads indicating the individual device number.

SDI2 module tamper

- Most SDI2 bus devices have an optional tamper input to detect when the cover is opened or when the device is removed from its mount.
- The keypad annunciates module tamper conditions reported by SDI2 bus modules as system faults and optionally sends them to the central station as events.

SDI2 wireless

- The B Series control panels support both the B810, which is a Bosch RADION wireless receiver, and the B820 SDI2 Inovonics Interface Module. The control panels support a wide range of transmitters and repeaters.

RF repeaters

- The B Series control panels support up to eight RF repeater modules. Each module is individually powered, and reports battery, AC, and tamper status to the control panel.

3.4.3 Keypad programming

The keypad's Installer menu provides a means for select programming on the control panel. Keypad programming can be enabled/disabled from RPS.

Installer menu

- Enter the Installer menu from any keypad using the Installer passcode.
- The tools within the Installer menu are:
 - Program menu. Program several parameters to make your system operational, including phone number and format, enhanced communication options, RPS parameters, users, points, and keypad parameters.
 - Wireless menu. Add, replace, remove, and diagnose points and repeaters.
 - Network menu. View information about the control panel's network connection.
 - Service Bypass menu. View whether points have been removed from service.
 - Versions menu. View the version information for the control panel, encryption, and more.
 - Cellular menu. View Conettix plug-in module diagnostic information.

Service mode

- The keypad provides a subset of the Installer menu accessible when the control panel is in Service mode. Service mode allows direct connection of an Installer keypad to the control panel for keypad programming at the control panel. To use direct connection, set the keypad address to 0.
- The only method to enter Service menu is to press and hold the control panel RESET button until the keypad shows a request for the installer passcode, and then enter the installer passcode.
- The only method to exit Service mode and return to normal operation is to press and hold the control panel RESET button until the control panel resets (reboots).

Points

- Set or remove Point Index and Point Source assignments through the keypad's Installer menu.

Wireless menu

- The Wireless menu includes the following menu options and uses:
 - Use the RF Points menu to enroll, replace, and remove the RFID for wireless points.
 - Use the RF Repeater menu to enroll, replace, and remove the RFID for RF repeaters.
 - Use the RF Diagnostics menu to view the status of RF points and RF repeaters.
- When programming wireless points without using the RFID number you must enter the Wireless menu and fault the wireless devices in order to enroll (learn) them.
- You cannot remove RF devices from a system keypad if the RF receiver is not present. Local device removal from a system keypad requires a receiver that is present. RPS device removal is supported under any condition.
- RADION keyfobs configured as supervised do not show as missing if the RADION receiver is disconnected. Instead, a keyfob shows as missing when the RADION receiver is connected and the keyfob fails to check in within the supervision interval.

Service bypass menu

- Setting Service Bypass to Yes disables a point. When Service Bypass is selected, the keypad shows the number of points that are Service Bypassed.

Network menu

- Use the Network menu to test the on-board Ethernet connection or a B426 Conettix Ethernet Communication Module to ensure that it can reach a specified network address on demand.

3.4.4

Event log

- To better support various central stations communication formats, some actuating sources are represented as special User IDs. When RPS, keyswitches, or Automation software perform actions on the control panel, the resulting events are logged with unique User IDs.
- All events stored in the control panel record the time and date, including the year.

3.4.5

Conettix receivers

Sending Conettix IP Ethernet reports or Modem4 telephone reports requires a Bosch central station receiver firmware update when existing equipment is in place. The following receivers are compatible with the control panel when updated to the listed CPU versions and managed with the listed software version:

Receiver	CPU version	D6200 version
Conettix D6600 Communications Receiver/Gateway (with D6641 line cards installed only)	01.10.00	2.00
Conettix D6100IPv6 Communications Receiver/Gateway	61.10.00	2.00
Conettix D6100i Communications Receiver/Gateway	61.10.00	2.00

4 Open source notifications

Bosch includes the open source software modules listed below in the firmware for this control panel. The inclusion of these modules does not limit the Bosch warranty.

Time routines

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RSA data security

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The "RSA Data Security, Inc. MD5 Message-Digest Algorithm" is included in the control panel firmware.

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